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DATE OF DEPOSIT: November 4, 2003

NAME: Kristin Tharski

SIGNATURE: Kristin Tharski

22154 U.S. PTO
10/701160



Transmitted herewith for filing is the patent
application of:

Inventors: **Marco BRANCIFORTE**
Antonino CALABRO'
Domenico PORTO

For: **QUANTUM GATE FOR CARRYING OUT A GROVER'S QUANTUM ALGORITHM AND
A RELATIVE METHOD OF PERFORMING THE INTERFERENCE OPERATION OF A
GROVER'S QUANTUM ALGORITHM**

Enclosed are:

- ☒ Patent Application: 23 pages, 13 claims
9 sheets of drawings
The suggested drawing figure to be published is FIG. 8.
A Preliminary Amendment (with 3 replacement drawing sheets).
Assignee info:
Name: STMICROELECTRONICS S.r.l.
Address: Via C. Olivetti, 2, 20041 Agrate Brianza (MI), Italy
Country of Incorporation: Italy
- ☒ Applicant claims priority benefit to the following U.S. application(s):
Application No.: 10/615,446
Filing Date: July 8, 2003
- and
- Application No.: (Not Yet Assigned)
Filing Date: November 4, 2003
- ☒ Applicant claims priority benefit to the following foreign application(s):
Country: Europe
Application No.: 02425447.6; Filing Date: July 8, 2002
- and
- Country: Europe
Application No.: 02425672.9; Filing Date: November 4, 2002
- and
- Country: Europe
Application No.: 03425080.3; Filing Date: February 11, 2003

The Declaration and Filing Fee are **NOT ENCLOSED**.

☒ Name, Address and Citizenship of Inventor(s) is as follows:

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☒ **PLEASE ADDRESS CORRESPONDENCE TO ATTORNEY OF RECORD: CHRISTOPHER F. REGAN**

☒ Associate this file with Customer No. 27975.



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PATENT TRADEMARK OFFICE

Date: November 4, 2003

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